Introduction to Computing — Lab

Week -02

Topic

cout **statement** in c++

Objective

- How to program in C++.
- To know how to display message/output to the console.
- Get familiar with cout syntax.

Outcomes

- 1. Recognize and fix syntax errors in **cout** statements.
- 2. Apply best practices to avoid syntax and semantic errors in **cout** code.

Content

The following topics require understanding for this lab session:

1. cout

Details of these topics are given below:

1. cout

Cout is an output insertion operator in C++ that is used to insert output into the standard output stream (usually the screen). It is a part of the iostream standard library in C++.

Lab-Tasks

Students are required to complete the following tasks in lab timings.

Task 1

Write a C++ program to display the following output in **single cout** statement:

Hello, World!

This is a C++ program.

Task 2

Write a C++ program to print a hollow triangle on console using cout statement as shown below: **Sample Output:**



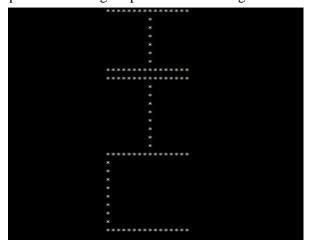
Task 3

Write a C++ program to print a following shape on console using cout statement as shown below:



Task 4

Write a C++ program to print a following shape on console using cout statement as shown below:



Task 5

Write a C++ program display your following details in cout statement.

Name: My Name is Ali

Registration No: <u>Your UCP-Registration Number</u>

Email: Your email address

Gender: Your Gender

Age: Your Age

Hometown: Your hometown Address

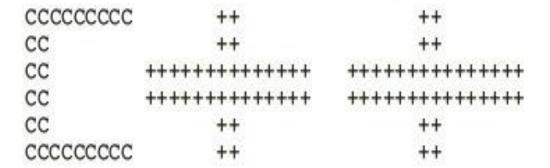
Task 6

Write a program that produce the following output:

Sample Output:

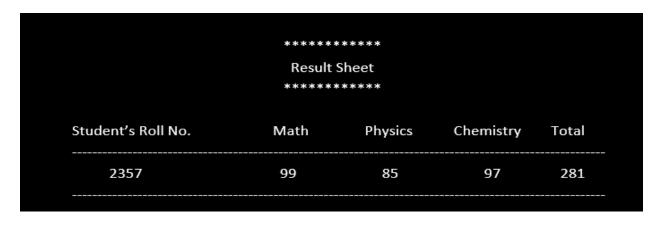
Task 7

Write a program that produce the following output:



Task 8

Print the students roll number and marks of subjects and print the total marks of that students; sample screen is given below:



Task 9

Write a C++ program to print the following output as **UCP-CS**;

U	U	CCCCC	PPPPP		CCCCCC	SSSSS
U	U	C	Р	Р	С	S
U	U	C	P PPPP		С	SSSSSS
U	U	C	P		С	S
UUUUU		CCCCC	Р		CCCCCC	SSSSS

Task 10

Write a C++ program to print the following output as

